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L3: Entry 1 of 3

File: DWPI

Jun 17, 2004

DERWENT-ACC-NO: 2002-179800

DERWENT-WEEK: 200440

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TITLE: Selecting compounds that inhibit herpes viruses by comparing inhibitory concentration of a compound of interest that inhibits wild-type herpes virus and domain mutant herpes virus, and selecting compound of interest

INVENTOR: HOMA, F L; HOPKINS, T A ; THOMSEN, D R ; WATHEN, M W .

PRIORITY-DATA: 2001US-283880P (April 13, 2001), 2000US-218118P (July 13, 2000), 2001US-0904065 (July 12, 2001), 2003US-0692556 (October 24, 2003)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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<input type="checkbox"/> WO 200206513 A2	January 24, 2002	E	126	C12Q001/00
<input type="checkbox"/> AU 200172920 A	January 30, 2002		000	C12Q001/00
<input type="checkbox"/> US 20020076789 A1	June 20, 2002		000	A61K048/00
<input type="checkbox"/> US 6682892 B2	January 27, 2004		000	C12Q001/68

INT-CL (IPC): [A01 N 43/04](#); [A61 K 31/70](#); [A61 K 48/00](#); [C07 H 21/04](#); [C12 N 9/22](#); [C12 Q 1/00](#); [C12 Q 1/68](#); [C12 Q 1/70](#)

ABSTRACTED-PUB-NO: US20020076789A

BASIC-ABSTRACT:

NOVELTY - Selecting (M) compounds that inhibit herpes viruses involves measuring IC50 of compound of interest (CI) that inhibits wild-type herpes virus (I) and domain mutant herpes virus (II) which is the same strain as (I), comparing IC50 of CI inhibiting (I) with IC50 of CI inhibiting (II) and selecting CI, where IC50 of CI that inhibits (II) is at least 3 times greater than IC50 of CI that inhibits (I).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a compound (III) for inhibiting herpes virus DNA polymerases, where passage of a wild type herpes virus in the presence of the compound results in a change of wild type herpes simplex virus type 1 (HSV-1) polymerases at amino acid 823 from valine to alanine, or of human cytomegalovirus (HCMV) polymerases at amino acid 823 from valine to alanine and at amino acid 824 from valine to leucine;

(2) a mutant herpes virus DNA molecule (IV) having a nucleotide sequence comprising

3717, 3723, 3708, or 3729 base pairs fully defined in the specification; and

(3) a mutant herpes virus polymerase amino acid molecule (V) having a sequence comprising 1238, 1240, 1235, or 1242 amino acids fully defined in the specification.

ACTIVITY - Antiviral.

MECHANISM OF ACTION - Inhibitor of herpes virus (claimed).

Antiviral activity of nucleoside and non-nucleoside polymerase inhibitors against 4-oxo-dihydroquinoline (4-oxo-DHQ) resistant mutants was tested: In order to determine if the 4-hydroxyquinoline (4-HQ) binding domain mutations altered the sensitivity of the herpes simplex virus type-1 (HSV-1), HSV-2 and human cytomegalovirus (HCMV) mutants to both non-nucleoside (4-oxo-DHQ's) and nucleoside inhibitors (e.g., Acyclovir and ganciclovir) several of the mutants were tested in plaque reduction assays against a series of non-nucleoside compounds including Foscarnet (PFA), 4-HQ's 4-oxo-DHQ's and 4-oxo-dihydrothienopyridine (4-oxo-DHTP). The mutants were also tested against series of nucleoside inhibitors including Acyclovir and ganciclovir. The activity of these compounds against the mutant was compared to their activity against the wild type strains that were used to isolate the HSV and HCMV mutants. When tested against a number of 4-HQ's, 4-oxo-DHQ's and 4-oxo-DHTP's and other related classes of compounds all of the drugs were found to inhibit the wild-type virus with IC50 values ranging from less than 0.1-30 micro M. When these drugs were tested against the resistant viruses they were found to have IC50 values 5-10 fold higher than the parent virus.

USE - (M) is useful for selecting compounds that inhibit herpes viruses. (III) is useful for manufacture of medicinals for selectively treating diseases caused by herpes viruses such as herpes viral infection, or for selectively inhibiting herpes viruses, in a human host by administering a compound to a human in need of such treatment, where (III) inhibits herpes viruses by interaction with the binding domain in the viral DNA polymerase, and IC50 of (III) that inhibits a binding domain mutant herpes virus is at least 3 times, preferably 5 times greater than IC50 of the compound that inhibits the wild-type herpes virus which is the same strain as the mutant herpes virus (all claimed).

ABSTRACTED-PUB-NO:

WO 200206513A

EQUIVALENT-ABSTRACTS:

NOVELTY - Selecting (M) compounds that inhibit herpes viruses involves measuring IC50 of compound of interest (CI) that inhibits wild-type herpes virus (I) and domain mutant herpes virus (II) which is the same strain as (I), comparing IC50 of CI inhibiting (I) with IC50 of CI inhibiting (II) and selecting CI, where IC50 of CI that inhibits (II) is at least 3 times greater than IC50 of CI that inhibits (I).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a compound (III) for inhibiting herpes virus DNA polymerases, where passage of a wild type herpes virus in the presence of the compound results in a change of wild type herpes simplex virus type 1 (HSV-1) polymerases at amino acid 823 from valine to alanine, or of human cytomegalovirus (HCMV) polymerases at amino acid 823 from valine to alanine and at amino acid 824 from valine to leucine;

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ABSTRACTED-PUB-NO: US20020076789A

EQUIVALENT-ABSTRACTS: NOVELTY - Selecting (M) compounds that inhibit herpes viruses involves measuring IC50 of compound of interest (CI) that inhibits wild-type herpes virus (I) and domain mutant herpes virus (II) which is the same strain as (I), comparing IC50 of CI inhibiting (I) with IC50 of CI inhibiting (II) and selecting CI, where IC50 of CI that inhibits (II) is at least 3 times greater than IC50 of CI that inhibits (I). DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) a compound (III) for inhibiting herpes virus DNA polymerases, where passage of a wild type herpes virus in the presence of the compound results in a change of wild type herpes simplex virus type 1 (HSV-1) polymerases at amino acid 823 from valine to alanine, or of human cytomegalovirus (HCMV) polymerases at amino acid 823 from valine to alanine and at amino acid 824 from valine to leucine; (2) a mutant herpes virus DNA molecule (IV) having a nucleotide sequence comprising 3717, 3723, 3708, or 3729 base pairs fully defined in the specification; and (3) a mutant herpes virus polymerase amino acid molecule (V) having a sequence comprising 1238, 1240, 1235, or 1242 amino acids fully defined in the specification. ACTIVITY - Antiviral. MECHANISM OF ACTION - Inhibitor of herpes virus (claimed). Antiviral activity of nucleoside and non-nucleoside polymerase inhibitors against 4-oxo-dihydroquinoline (4-oxo-DHQ) resistant mutants was tested: In order to determine if the 4-hydroxyquinoline (4-HQ) binding domain mutations altered the sensitivity of the herpes simplex virus type-1 (HSV-1), HSV-2 and human cytomegalovirus (HCMV) mutants to both non-nucleoside (4-oxo-DHQ's) and nucleoside inhibitors (e.g., Acyclovir and ganciclovir) several of the mutants were tested in plaque reduction

assays against a series of non-nucleoside compounds including Foscarnet (PFA), 4-HQ's 4-oxo-DHQ's and 4-oxo-dihydrothienopyridine (4-oxo-DHTP). The mutants were also tested against series of nucleoside inhibitors including Acyclovir and ganciclovir. The activity of these compounds against the mutant was compared to their activity against the wild type strains that were used to isolate the HSV and HCMV mutants. When tested against a number of 4-HQ's, 4-oxo-DHQ's and 4-oxo-DHTP's and other related classes of compounds all of the drugs were found to inhibit the wild-type virus with IC50 values ranging from less than 0.1-30 micro M. When these drugs were tested against the resistant viruses they were found to have IC50 values 5-10 fold higher than the parent virus. USE - (M) is useful for selecting compounds that inhibit herpes viruses. (III) is useful for manufacture of medicinals for selectively treating diseases caused by herpes viruses such as herpes viral infection, or for selectively inhibiting herpes viruses, in a human host by administering a compound to a human in need of such treatment, where (III) inhibits herpes viruses by interaction with the binding domain in the viral DNA polymerase, and IC50 of (III) that inhibits a binding domain mutant herpes virus is at least 3 times, preferably 5 times greater than IC50 of the compound that inhibits the wild-type herpes virus which is the same strain as the mutant herpes virus (all claimed). WO 200206513A

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L7: Entry 1 of 5

File: USPT

Apr 1, 2003

US-PAT-NO: 6541009

DOCUMENT-IDENTIFIER: US 6541009 B1

**** See image for Certificate of Correction ****

TITLE: Viral vaccines

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inglis; Stephen Charles	Linton			GB
Boursnell; Michael Edward Griffith	Cambridge			GB
Minson; Anthony Charles	Great Shelford			GB

US-CL-CURRENT: 424/199.1; 424/205.1, 424/229.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 2. Document ID: US 6319703 B1

L7: Entry 2 of 5

File: USPT

Nov 20, 2001

US-PAT-NO: 6319703

DOCUMENT-IDENTIFIER: US 6319703 B1

TITLE: Recombinant virus vectors

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Speck; Peter G.	Chicago	IL	60611	

US-CL-CURRENT: 435/235.1; 424/199.1, 424/205.1, 424/229.1, 424/231.1, 424/93.2,
435/236

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D.
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☐ 3. Document ID: US 6287557 B1

L7: Entry 3 of 5

File: USPT

Sep 11, 2001

US-PAT-NO: 6287557

DOCUMENT-IDENTIFIER: US 6287557 B1

**** See image for Certificate of Correction ****

TITLE: Methods of gene therapy using herpes viral vectors expressing GM-CSF.

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boursnell; Michael E. G.	Cambridge			GB
Inglis; Stephen C.	Cambridge			GB

US-CL-CURRENT: 424/93.2; 435/320.1, 435/455, 435/91.4, 435/91.41, 435/91.42

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 4. Document ID: US 5837261 A

L7: Entry 4 of 5

File: USPT

Nov 17, 1998

US-PAT-NO: 5837261

DOCUMENT-IDENTIFIER: US 5837261 A

**** See image for Certificate of Correction ****

TITLE: Viral vaccines

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inglis; Stephen Charles	Linton			GB
Boursnell; Michael Edward Griffith	Cambridge			GB
Minson; Anthony Charles	Great Shelford			GB

US-CL-CURRENT: 424/229.1; 424/231.1, 435/235.1, 435/236

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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☐ 5. Document ID: US 5665362 A

L7: Entry 5 of 5

File: USPT

Sep 9, 1997

US-PAT-NO: 5665362

DOCUMENT-IDENTIFIER: US 5665362 A

**** See image for Certificate of Correction ****

TITLE: Viral vaccines

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Inglis; Stephen Charles	Cambridge			GB
Boursnell; Michael Edward Griffith	Cambridge			GB
Minson; Anthony Charles	Cambridge			GB

US-CL-CURRENT: 424/205.1; 424/229.1, 424/231.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	BOHC	Draw De
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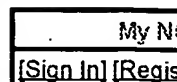
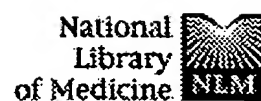
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Amino acid changes within conserved region III of the herpes simplex virus and human cytomegalovirus DNA polymerases confer resistance to 4-oxo-dihydroquinolines, a novel class of herpesvirus antiviral agents. J Virol. 2003 Feb;77(3):1868-76. PMID: 12525621 [PubMed - indexed for MEDLINE]

- ☐ 2: [Brideau RJ, Knechtel ML, Huang A, Vaillancourt VA, Vera EE, Oien NL, Hopkins TA, Wieber JL, Wilkinson KF, Rush BD, Schwende FJ, Wathen MW.](#) Related Articles, Links



Broad-spectrum antiviral activity of PNU-183792, a 4-oxo-dihydroquinoline, against human and animal herpesviruses. Antiviral Res. 2002 Apr;54(1):19-28. PMID: 11888654 [PubMed - indexed for MEDLINE]

- ☐ 3: [Oien NL, Brideau RJ, Hopkins TA, Wieber JL, Knechtel ML, Shelly JA, Anstadt RA, Wells PA, Pooranan RA, Huang A, Vaillancourt VA, Clayton TL, Tucker JA, Wathen MW.](#) Related Articles, Links



Broad-spectrum antiherpes activities of 4-hydroxyquinoline carboxamides, a novel class of herpesvirus polymerase inhibitors. Antimicrob Agents Chemother. 2002 Mar;46(3):724-30. PMID: 11850254 [PubMed - indexed for MEDLINE]

- ☐ 4: [Saijo M, Suzutani T, Morikawa S, Kurane I.](#) Related Articles, Links



Genotypic characterization of the DNA polymerase and sensitivity to antiviral compounds of foscarnet-resistant herpes simplex virus type 1 (HSV-1) derived from a foscarnet-sensitive HSV-1 strain. Antimicrob Agents Chemother. 2005 Feb;49(2):606-11. PMID: 15673740 [PubMed - indexed for MEDLINE]

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
In vitro activities of benzimidazole D- and L-ribonucleosides against herpesviruses. Antimicrob Agents Chemother. 2003 Jul;47(7):2186-92. PMID: 12821466 [PubMed - indexed for MEDLINE]


- ☐ 6: [Kushner NL, Williams SL, Hartline CB, Harden EA, Bidanset DJ, Chen X, Zemlicka J, Kern ER.](#) Related Articles, Links




Efficacy of methylenecyclopropane analogs of nucleosides against herpesvirus replication in vitro.


Nucleosides Nucleotides Nucleic Acids. 2003 Dec;22(12):2105-19.
PMID: 14714760 [PubMed - indexed for MEDLINE]


-  **7:** [Hwang YT, Zuccola HJ, Lu Q, Hwang CB.](#) [Related Articles, Links](#)

 A point mutation within conserved region VI of herpes simplex virus type 1 DNA polymerase confers altered drug sensitivity and enhances replication fidelity.
J Virol. 2004 Jan;78(2):650-7.
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-  **8:** [Bestman-Smith J, Boivin G.](#) [Related Articles, Links](#)


 Drug resistance patterns of recombinant herpes simplex virus DNA polymerase mutants generated with a set of overlapping cosmids and plasmids.
J Virol. 2003 Jul;77(14):7820-9.
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
-  **9:** [Spector FC, Liang L, Giordano H, Sivaraja M, Peterson MG.](#) [Related Articles, Links](#)

 Inhibition of herpes simplex virus replication by a 2-amino thiazole via interactions with the helicase component of the UL5-UL8-UL52 complex.
J Virol. 1998 Sep;72(9):6979-87.
PMID: 9696789 [PubMed - indexed for MEDLINE]


-  **10:** [Kamivama T, Kurokawa M, Shiraki K.](#) [Related Articles, Links](#)

 Characterization of the DNA polymerase gene of varicella-zoster viruses resistant to acyclovir.
J Gen Virol. 2001 Nov;82(Pt 11):2761-5.
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-  **11:** [Hwang YT, Smith JF, Gao L, Hwang CB.](#) [Related Articles, Links](#)


 Mutations in the Exo III motif of the herpes simplex virus DNA polymerase gene can confer altered drug sensitivities.
Virology. 1998 Jul 5;246(2):298-305.
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PMID: 12367721 [PubMed - indexed for MEDLINE]

-  **13:** [Michel D, Mertens T.](#) [Related Articles, Links](#)

 The UL97 protein kinase of human cytomegalovirus and homologues in other herpesviruses: impact on virus and host.
Biochim Biophys Acta. 2004 Mar 11;1697(1-2):169-80. Review.
PMID: 15023359 [PubMed - indexed for MEDLINE]

-  **14:** [Knopf KW, Kaufman ER, Crumpacker C.](#) [Related Articles, Links](#)

 Physical mapping of drug resistance mutations defines an active center of the herpes simplex virus DNA polymerase enzyme.
J Virol. 1981 Sep;39(3):746-57.
PMID: 6270349 [PubMed - indexed for MEDLINE]

-  **15:** [Tenney DJ, Yamanaka G, Voss SM, Cianci CW, Tuomari AV.](#) [Related Articles, Links](#)

Sheaffer AK, Alam M, Colonna RJ.



Lobucavir is phosphorylated in human cytomegalovirus-infected and -uninfected cells and inhibits the viral DNA polymerase.

Antimicrob Agents Chemother. 1997 Dec;41(12):2680-5.
PMID: 9420038 [PubMed - indexed for MEDLINE]



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Mode of action of (1'S,2'R)-9-[[1',2'-bis(hydroxymethyl) cycloprop-1'-yl]methyl]guanine (A-5021) against herpes simplex virus type 1 and type 2 and varicella-zoster virus.

Antimicrob Agents Chemother. 1998 Aug;42(8):2095-102.
PMID: 9687413 [PubMed - indexed for MEDLINE]



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Evaluating phenotype and genotype of drug-resistant strains in herpesviruses.

Mol Biotechnol. 2001 Jun;18(2):155-67.
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Resistance of herpes simplex virus type 1 to peptidomimetic ribonucleotide reductase inhibitors: selection and characterization of mutant isolates.

J Virol. 1996 Feb;70(2):787-93.
PMID: 8551616 [PubMed - indexed for MEDLINE]



19: Terry BJ, Mazina KE, Tuomari AV, Haffey ML, Hagen M, Feldman A, Slusarchyk WA, Young MG, Zahler R, Field AK. [Related Articles, Links](#)



Broad-spectrum antiviral activity of the acyclic guanosine phosphonate (R,S)-HPMPG.

Antiviral Res. 1988 Dec 1;10(4-5):235-51.
PMID: 2852486 [PubMed - indexed for MEDLINE]



20: Lowe DM, Alderton WK, Ellis MR, Parmar V, Miller WH, Roberts GB, Fyfe JA, Gaillard R, Ertl P, Snowden W, et al. [Related Articles, Links](#)



Mode of action of (R)-9-[4-hydroxy-2-(hydroxymethyl)butyl]guanine against herpesviruses.

Antimicrob Agents Chemother. 1995 Aug;39(8):1802-8.
PMID: 7486922 [PubMed - indexed for MEDLINE]

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